

CAVOK Aviation Training Ltd.

Tecnam P2006T and P2006-023 FNPT II MEP Standard Operational Procedures

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Notes:

- These SOP's and Checklists were developed for P-2006T Tecnam and FNPT II MEP training.
- This SOP is written in accordance with the Tecnam P2006T Aircraft Flight Manual (AFM) and CAVOK Aviation Training Ltd. IFR Procedures
- Approved aircraft manuals always take precedence over this training manual.
- Operation in IFR is only approved on a 1200 m paved runway or longer.
- Normal procedures shall be completed by memory as a "flow" followed by reading the appropriate normal checklist. Normal checklists can be found on a laminated form on board.
- During emergency situations non-normal checklists shall be completed when the
 aircraft and flight path are under positive control and above minimum sector
 altitude. It is permissible to read non-normal checklists below MSA only when the
 aircraft is under radar vectors or PIC can maintain positive visual contact with the
 ground.
- When an emergency situation requires imminent action pilots shall complete nonnormal checklist by memory. These checklists are: ENGINE SECURING, ENGINE FAILURE DURING TAKEOFF RUN, ENGINE FAILURE DURING CLIMB, ENGINE FAILURE IN FLIGHT, ENGINE FIRE ON THE GROUND, ENGINE FIRE DURING TAKEOFF RUN, ENGINE FIRE IN FLIGHT, ELECTRICAL SMOKE IN CABIN ON THE GROUND, ELECTRICAL SMOKE DURING FLIGHT, UNINTENTIONAL SPIN RECOVERY, AIRCRAFT EVACUATION.
- In the following procedure "CHECK" means the item is checked according to the Aircraft Flight Manual.
- When "As required" is indicated in the checklist corresponding item or system status should be called out.

CAVOK OPERATIONAL LIMITATIONS

Engine failure training on aircraft:

Below 2500 ft AGL simulation of engine failure approved by a power reduction only. The allowed minimum altitude for engine failure training simulated by power reduction is 500 ft AAL.

Actual engine shutdown for training purposes allowed at or above 2500 ft AGL only. This exercise shall be carried out near a suitable aerodrome, so that a safe single engine landing can be carried out in case of an unsuccessful restart.



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Normal Procedures

Preflight Inspection:

Note: Visually inspect aircraft for general condition. Fuel tank drain – before first flight of a day and after each refueling.

Action
AIRPLANE CONDITION Reported Airworthy
WEATHERSuitable
NOTAM Check
FUELCalculated
WEIGHT AND BALANCECalculated
FLIGHT PLANFiled, Accepted
CREW AND AC DOCUMENTSOn-Board
MAPS AND NAV EQUIPMENTOn-Board

Walk-around inspection procedure:

Note: Before every first take-off a day or after a crew change, a walk-around inspection should be completed.

Action	
PILOT DOOR AND CABIN:	Ī
DOORCondition Check	
EMERGENCY CHECKLISTOn-Board	
LANDING GEAR KNOBCheck DOWN	
SWITCHESCheck OFF	
MAGNETO SWITCHESCheck OFF	ļ
CIRCUIT BREAKERS Check IN	ļ
EMERGENCY EQUIPMENT Check as needed	ļ
LEFT MAIN LANDING GEAR:	ļ
CHOKES/BLOCKSRemoved	
TIRE SLIP (Red line) Check	
PROPER TIRE INFLATION Check	
TIRE WEAR STATUS Check	
SHOCK ABSORBERS Check	
HYDRAULIC FLUID LEAKAGE Check	
BRAKESCheck	
LIMIT SWITCHES Check	
DDODELLED AND CDINNED	
PROPELLER AND SPINNER CONDITIONOK	
BOLTS TIGHTENINGSecure	
BLADE FIXINGOK	
HYDRAULICS LEAKAGE FROM FLANGE	
TITORAGE ELARAGE PROPRIETANGE	



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Action	Call
<u>LEFT ENGINE:</u>	
NACELLE Surface check	
INLETS AND EXHAUSTSFree	
RADIATORSFree of obstructions, No leak	
MAGNETO SWITCHES Check OFF	
Open the Oil Tank cover, remove the oil cap, pull out the	
dipstick and leave it on the shoulder within the tank, rotate	
the propeller normal direction till you hear a murmuring	
sound + 5 more rotations	
OIL LEVELCheck	
OIL CAPClosed, secured	
INSPECTION DOORSClosed, secured	
FILTER Drain	
DRAINAGE HOSESFix	
LOCKS AND BOLTSFix	
AIR VENTSFree	
LEFT WING:	
LEADING EDGE Check, No damage	
TOP AND BOTTOM PANELSCheck, No damage	
FUEL TANK Capacity check, cap secured	
FUEL TANK VENT	
WINGLET Check(+ NAV and Strobe lights)	
STATIC DISCHARGE WICKS Check	
AILERON Free movement	
AILERONFixing & Hinges OK	
FLAPFixing & Hinges OK	
<u>FUSELAGE:</u>	
LEFT STATIC PORTClear	
ANTENNAS Check	
EMERGENCY GEAR PRESSURE 20-24 Bar	
BATT. DOOR + EXT. POWER Locked & Secured	
VERTICAL SURFACE Check	
HORIZONTAL SURFACE Free movement	
HORIZONTAL SURFACE Fixing & Hinges OK	
STATIC DISCHARGE WICKS Check	
FUSELAGE SKINCheck, no damage	
RIGHT STATIC PORTClear	
RIGHT WING:	
FLAPSFixing & Hinges OK	
AILERON Free movement	
AILERON Fixing & Hinges OK	
STATIC DISCHARGE WICKS	
WINGLET Check(+ NAV and Strobe lights)	
LEADING EDGE	
TOP AND BOTTOM PANELSCheck, No damage	
FUEL TANK Capacity check, cap secured	
FUEL TANK VENT	
STALL WARNING SYSTEMLift, Condition Check	



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Action	Ca
PROPELLER AND SPINNER:	T
CONDITION OK	
BOLTS TIGHTENINGSecure	
BLADE FIXING OK	
HYDRAULICS LEAKAGE FROM FLANGE	
TIDRAULICS LEARAGE FROM FLANGE	
RIGHT ENGINE:	
NACELLESurface check	
INLETS AND EXHAUSTS	
RADIATORSFree of obstructions, No leak	
·	
MAGNETO SWITCHES Check OFF	
Open the Oil Tank cover, remove the oil cap, pull out the	
dipstick and leave it on the shoulder within the tank, rotate	
the propeller normal direction till you hear a murmuring	
sound + 5 more rotations	
OIL LEVEL Check	
OIL CAPClosed, secured	
INSPECTION DOORSClosed, secured	
FILTER Drain	-
DRAINAGE HOSESFix	
LOCKS AND BOLTSFix	
AIR VENTSFree	
7111 VEIVIO	
PASSENGER DOOR AND CABIN:	
DOOR Condition check	
EMERGENCY EQUIPCheck as needed	
SEAT BELTSCheck	
BAGGAGE COMPARTMENT Check location and stowage	
EMERGENCY EXITLock and secure	
VENTILATION PORTS Check setting	
RIGHT MAIN LANDING GEAR:	
CHOKES/BLOCKS	
TIRE SLIP (Red line)	
·	
PROPER TIRE INFLATION	
TIRE WEAR STATUS Check	
SHOCK ABSORBERS Check	
HYDRAULIC FLUID LEAKAGE Check	
BRAKESCheck	
LIMIT SWITCHES Check	
EUSELAGE:	
FUSELAGE:	
BOTTOM ANTENNAS	
RIGHT CABIN RAM-AIR INLETClear	
RIGHT PITOT TUBEClear	
COWLINGCheck integrity	
LEFT PITOT TUBEClear	
LEFT CABIN RAM-AIR INLETClear	
WINDSHIELDClear	



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Action	Call
NOSE LANDING GEAR:	
TOWING BARRemoved	
SERVICE DOORClose, secure	
TIRE SLIP (Red line) Check	
PROPER TIRE INFLATION Check	
TIRE WEAR STATUS Check	
SHOCK ABSORBERS Check	
HYDRAULIC FLUID LEAKAGE Check	
MECHANISM INTEGRITY Check	
DOOR AND THEIR ATTACHMENTS Check	
LIMIT SWITCHES Check	
	"Pre-flight inspection completed"

After entering cabin:

Action	Call
MAPS/EQUIPMENTOn-board	
FLIGHT + GARMIN MANUALWithin reach	
SEAT+SEAT BELTSSet + Secure	
DOOR	"In case of evacuation, I will announce <i>EVACUATE NOW, USE LEFT OR RIGHT DOORS.</i> Passengers will be required to open the assigned door and leave the aircraft as quickly as possible leaving all belongings on board. In
RH FUEL SELECTORCheck RIGHT	case of pilot incapacitation,
LH FUEL SELECTORCheck LEFT	passengers may start evacuation
LANDING GEAR KNOBCheck DOWN	without the pilot's call"
THROTTLE LEVER Free, set friction	
CONTROLSFree movement	
ALTERNATE STATIC PORTCheck closed	
CABIN HEAT OFF	



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Engine start procedure:

Action	Call
In case of at a Controlled Airport:	
MASTER SWITCHOn	
START-UP CLEARANCEObtain	
MASTER SWITCHOff	
ENGINE STARTING	
ENGINE STARTING:	
PARKING BRAKESet	
CIRCUIT BREAKERS Check IN	
AVIONICS SWITCHESCheck OFF	
ELECTRIC SWITCHESCheck OFF	
PROP LEVERS Full forward	
THROTTLESIdle	
CARBURETTOR HEATOff	"Before startup checklist"
	"Before startup checklist
Complete before startup checklist	complete"
MASTER SWITCHOn	
STROBE LIGHTOn	
For each engine separately:	
CHOKEAs needed	"Propeller Clear"
FUEL PUMPOn	·
PROPELLER AREA Check free	
IGNITION SWITCHESStarting engine: ON	
START BUTTONPush (max. 5 sec.)	"Oil pressure checked"
THROTTLE1200 RPM	
OIL PRESSURE Check rising, min. 0,15bar in 10s	
<u>Note</u> :	
If the outside temperature is low, the oil pressure may after	
the engine starts increase up to 7 bars.	
CHOKEGradually OFF (keep RPM)	
FIELDOn	
CROSS BUSOn	
AMPERMETER Charge	
VOLTMETERCheck	
FUEL PUMPOff	
AVIONIES	
AVIONICSON	
LIGHTSAs needed	



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Before Taxi procedure:

Action	Call
FIRE DETECTORTest	
ALTIMETERSSet QNH	"Altimeters set and crosschecked"
DEPARTURE CLEARENCE Record	
NAVAIDS, FREQUENCIESSet, tune, identify	"Departure review complete"
DEPARTURE PROCEDUREReview	Departure review complete
FLIGHT INSTRUMENTSCheck	
LANDING GEAR LIGHTSTest	
RUDDER TRIMCheck + Set	
ELEVATOR TRIM	
FLAPSFull cycle	
Verify flap operation	
FUEL QUANTITYCheck CIRCUIT BREAKERSCheck IN	
RH FUEL SELECTOR Set LEFT	
LH FUEL SELECTORSet RIGHT	"Before taxi checklist"
TAXI LIGHTSOn	"Before taxi checklist complete"
17.00 Elottio	
TAXI AREAFree	
PARKING BRAKERelease	

Taxi procedure:

Action	Call
BRAKES Check operation	
MAG. COMPASS Free moving, full of liquid	
TURN INDICATOR Indicates turning	
GYRO Indicates turning	
AIRSPEED INDICATORIndicates 0	
VERTICAL SPEED INDICATOR Indicates 0	
If ATC provides departure clearance during taxi:	
AIRCRAFT Stop	
PARKING BRAKESet	
DEPARTURE CLEARANCE Record	
NAVAIDS, FREQUENCIESSet, tune, identify	
DEPARTURE PROCEDUREReview	"Departure review complete"



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Holding point:

Action	Call
DOORSLocked, Secured	Call
SEAT BELTS + SEATSLocked, Secured	
PARKING BRAKE Engage	
THROTTLES	
RH FUEL SELECTORSet RIGHT	
LH FUEL SELECTOR Set LEFT	
ENGINE INSTRUMENTSIndicating required	
PROP LEVERS FULL FWD	
THOI LEVENSTOLET WD	
ENGINE RUN-UP (BOTH ENGINES, SAME TIME):	
THROTTLES	
ENGINE INSTRUMENTSIndicating required	
PROP LEVERS Max. to min. travel, 3x*	
* max to min does NOT include feather range!	
MAP increasing, RPM Decreasing, oil pressure	
decreasing	
Note: For FSTD for governor check set throttle to 15	
inHg MAP, then after governor check set prop levers full	
FWD and throttle to 1650 RPM	
MAGNETO CHECKCheck	
Decrease max. 130RPM	
Difference max 50 RPM	
CARBURETTOR HEATCheck	
Verify decrease in RPM	
THROTTLESIdle	
Verify engine instruments indications	
THROTTLES1000-1200 RPM	
PREPARE FOR DEPARTURE:	
FLIGHT INSTRUMENTSCheck, set for T/O	"If I decide to abort the take-off I
TRANSPONDERSet	will call REJECT.
A. PILOT MASTERAs needed	If I reject before rotation, I will
TRIM Check + Set	close the power levers immediately
FUEL PUMPSBoth ON	and apply maximum braking.
FLAPS	If I reject after rotation, I will check
FLIGHT CONTROLSCHECK free movement	the landing gear down 3 greens,
DEDARTURE EMERCENCY DEVIEW	set full flaps and land straight ahead, Stop the aircraft, and set
DEPARTURE EMERGENCY REVIEW Perform	the parking brake. I will announce
	evacuation if needed. After the
	decision point, I will call
	CONTINUE.



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Set full power, maintain RWY heading, and accelerate to Vyse (80kts). Retract the gear with a positive rate of climb. Identify the malfunction and start memory items when positive climb and aircraft control is achieved.

In case of VMC:
I will join the visual pattern of RWY

I will join the visual pattern of RWY XX and land.

In case of IMC:

I will follow the IFR escape route or ATC instructions for landing"

"Before Takeoff Checklist" "Before Takeoff Checklist complete"

Complete before takeoff checklist

WHEN LINEUP CLEARENCE RECEIVED:

T/O and APP area	Clear
TAXI LIGHT	Off
LANDING LIGHT	On
TRANSPONDER	ALT
RWY HEADING	Check
WILLIAM TAKEOFF CLEARENCE DECEIVED.	

WHEN TAKEOFF CLEARENCE RECEIVED:

TIMECheck



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Take-off procedure:

Action	Call
MANUAL BRAKESet	
THROTTLES2000 RPM	
ENGINE INSTRUMENTSCheck indications stable	
BRAKES Release	"Take-off power set"
THROTTLES FULL FWD	rake on power set
<u>Note:</u>	
Right hand remains on power levers until decision	
point	
	"Speed alive"
AIRSPEED INDICATOR First movement	
	"Rotate"
AIRSPEED INDICATOR70 KTS	
Rotate the aircraft and maintain V_{XSE} (79 kts).	
When passing decision point and re-land not	"Re-land not possible, Gear up"
possible:	то таки построитью, сост ир
LANDING GEARUP	
<u>Note:</u>	"Gear up, no lights"
Select gear up with positive rate of climb and verify	
retraction	
On normal takeoff, gradually accelerate to V_Y (83	
KTS SIM)	
16 1	
If clear of obstacles, at 500' AGL (200' AGL if VFR):	
After take-off:	
FLAPS	
THROTTLES	
PROPELLERS2250 RPM	#0.5
SPEED85 KTS	"After take-off checklist"
LANDING LIGHT OFF	"After take-off checklist
FUEL PUMPS OFF	completed"
At 1000' AGL	
Complete after takeoff checklist	
Accelerate to enroute climb speed 100 KTS if	
applicable.	
иррпсиые.	



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Cruise climb:SPEED	"STD Set, crosschecked"
At Transition Altitude: ALTIMETERSSet STD	

Descent Procedure (IFR)

Action	Call
Approach preparation:	
<u>Note:</u>	
Get WX and landing condition (record ATIS if	
available) and plan the approach before top of	
descent. Calculate landing performance.	
Set, tune, identify NAVAIDS during the preparation.	
It is permissible to continue the preparation during	
descent, but it must be completed before starting	
the approach at latest.	
Approach review:	
Review STAR, Instrument approach, Missed	
approach and after landing procedure	
APPROACH MINIMUMS Check (Set)	
G/A ALTITUDE Check (Set)	"Approach review complete"
MIN. SAFE ALTITUDECheck	
Top of descent:	
CARB HEATSAs required	
THROTTLESBelow gear horn limit	
LANDING GEAR WARNINGVerify	
THROTTLES	
PROPELLERS	
1 NOT ELECTION 1 NOT	
At Transition Level:	"QNH xxxx, altimeters set and
ALTIMETERSSet QNH	crosschecked"
Monitor speed and engine parameters during	
descent.	
FUEL SELECTORSCheck	
SEATSUpright Pos.	



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SEATBELTSFastened	

Approach Procedure (IFR)

Action	Call
Passing Initial Approach Fix/on intercept HDG/on	
downwind leg:	
Complete Approach Checklist	"Approach checklist" "Approach checklist completed"
2 NM before FAF or when GS alive:	
(latest: 1 dot below GS or 1 NM before FAF)	
BELOW 118 KTS	
FLAPST/O	"Speed checked, flaps"
BELOW 93 KTS	
LANDING GEARDown	"Speed checked, gear down"
FUEL PUMPSOn	
LANDING LIGHTSOn	
Intercepting GS or descent profile or at FAF: THROTTLESdescent power (~15inHg) AIRSPEED85-90 KTS Start descending	"Passing FAF/On Glideslope, xxxx feet checked"
At 4NM final, OM or equivalent position:	"Passing OM, xxxx feet checked"
CARB. HEATSOff	
PROPELLERS Full FWD	
<u>Note:</u>	
In IFR, land with flaps T/O	
Passing 1000' AAL (Circling 300' AAL)	"Landing checklist"
Complete Landing checklist	"Landing checklist completed"
Approaching minimum by 100 feet:	"Approaching minimum, Gear
Last check on gear	down, 3 greens"
At minimum:	"Landing/Go-around"
Decide	



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Missed Approach Procedure

Action	Call
In case of go-around:	
THROTTLES Full FWD	"Go-around flaps"
PROPELLERS Check full FWD	
CARB HEATSCheck OFF	
ROTATEapprox 8°-10°, by 3°/sec	
FLAPS 1 notch up	"Positive rate, gear up"
CHECK POSITIVE RATE	Positive rate, gear up
LANDING GEARUp	
<u>Note:</u>	
Check speed is above V_{MC} before flap retraction.	
Retract the gear with positive rate of climb.	
Gradually accelerate to V_Y (blue line) speed,	
maintain RWY heading	
If clear of obstacles at 500' AGL:	
After take-off:	
FLAPSUP	
THROTTLES 27 inHg	
PROPELLERS2250 RPM	
SPEED85 KTS	
LANDING LIGHT OFF	
FUEL PUMPS OFF	
Tune radios for go-around and contact ATC.	
	"After take-off checklist"
At 1000' AGL	"After take-off checklist complete"
After take-off checklist	
Accelerate to enroute climb speed 100 KTS if	
applicable.	

Landing procedure:

Action	Call
	"Landing"
Reduce the speed in order to fly over the threshold with 80 KTS.	
Land with two hands on the controls. Use gradual	
manual braking. Delay the flap retraction on the	
ground until vacating the RWY, unless strong	
crosswind or gusty weather conditions exist, or	
maximum braking is required.	



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Taxi in procedure:

Action	Call
After vacating the runway:	
LANDING LIGHTS OFF	
TAXI LIGHTS ON	
FUEL PUMPSOFF	
FLAPS 0°	
TRANSPONDER OFF	

Shut-down procedure:

Action	Call
At stand:	
PARKING BRAKESet	
AVIONICS OFF	
MAGNETOS OFF	
NAV&STROBE LIGHTS OFF	
MASTER SWITCH OFF	
Shutdown checklist	"Shutdown checklist" "Shutdown checklist complete"



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Descent and Arrival Procedure (VFR)

Action	Call
Before entering traffic pattern, reduce speed below	
120 KTS.	
On Downwind leg	
Monitor traffic, wind and downwind HDG and ALT	
,	
Abeam Threshold:	
CARB. HEATSOn	
THROTTLESBelow gear horn limit LANDING GEAR WARNINGVerify	
THROTTLES 13-15 in Hg	
13 11116	
BELOW 118 KTS	"Speed checked Flaps"
FLAPST/O	эреей спескей г іарѕ
BELOW 93 KTS	
LANDING GEARDown	"Speed checked, gear down"
Adjust power to maintain 85kts	
LANDING LIGHTOn	
FUEL PUMPSOn	
After completing base turn:	
Start descending, maintain 85-90kts with flaps T/O	
3, 1	
After completing final turn:	
FLAPS LANDING (Grass runway)	
AIRSPEED85 KTS	
Final:	
CARB. HEATS OFF	
PROPELLERS Full FWD	
AIRSPEED85 KTS	When the Charling"
Complete Landing Charlist	"Landing Checklist" "Landing Checklist completed"
Complete Landing Checklist	- Landing encomist completed
Short Final	
LAST CHECK ON GEARSDOWN, 3 GREENS	"Gear down, 3 greens"



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Landing procedure:

Action	Call
Reduce the speed in order to fly over the threshold with 75 KTS. Land with two hands on the controls. Use gradual manual braking. Delay the flap retraction on the ground until vacating the RWY, unless strong crosswind or gusty weather conditions exist, or maximum braking is required.	"Landing"

Taxi in procedure:

Action	Call
After vacating the runway:	
LANDING LIGHTS OFF	
TAXI LIGHTS ON	
FUEL PUMPS OFF	
FLAPSUP	
TRANSPONDER OFF	

Shut-down procedure:

Action	Call
At stand:	
PARKING BRAKESet	
AVIONICS OFF	
MAGNETOS OFF	
NAV&STROBE LIGHTSOFF	
MASTER SWITCH OFF	
Shutdown checklist	"Shutdown checklist" "Shutdown checklist complete"